

LIFE-AIR 1000®

Hypothermic
Therapy System

Operators Manual

Progressive Dynamics Medical, Inc.

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Symbol Definitions

SYMBOL	DEFINITION
	Rating: Type BF equipment according to IEC 601-1
	Attention: Important information, consult accompanying documents.
	Test: Flashing yellow lamp indicates automatic test sequence is in progress.
	Alarm: Red lamp flashes and the audible alarm tone sounds, indicating the system has shut the heater off due to an abnormally high temperature condition. Note, this lamp will flash during a self-test sequence when the unit reaches an over-temperature condition, and will extinguish when the self-test completes the test sequence.
	On: Green 'ON' power indicator lamp indicates main power switch is turned on and power is being provided to the <i>LIFE-AIR 1000</i> system.
	Blanket Temperature C/ F Nominal temperature of air delivered to patient by warming cover, as selected by rotary 'Heater Control'.
	Heater Control: Rotary switch for selecting output temperature to the warming cover.
	Ambient: Unheated room air delivered to warming cover, when selected by the 'Heater Control'.
	Overtemp: Bargraph in the 'Overtemp' red area indicates system temperature exceeds safe limits.
	27 32 38 43 (80 90 100 110): Temperature settings in C and (F) selected by the 'Heater Control'. The selected temperature in F is indicated by lighting the corresponding lamp. Equivalent C temperatures are marked directly above the lamp.
	NO FREE-HOSING: CAUTION! Hose nozzle MUST be connected to a compatible forced air blanket, or thermal injury may occur.

Progressive Dynamics Medical, Inc.

LIFE-AIR 1000® Hypothermic Therapy System

The **LIFE-AIR 1000** Hypothermic Therapy System, by Progressive Dynamics Medical, was developed to reduce the effects of hypothermia, a common problem during and after surgery.

The **LIFE-AIR 1000** system provides an effective, low-cost method to warm patients, both in surgery and in the postoperative recovery room.

The **LIFE-AIR 1000** system consists of state-of-the-art components, including 700 watt electric heater, patented, solid-state temperature controller, air circulator, HEPA filter with .2 micron filtration, and a patented **SOFT-FLEX®** Warming Cover.

The temperature controller has 5 temperature settings – ambient, 27 , 32 , 38 , and 43 Celsius (ambient 80 , 90 , 100 , and 110 Fahrenheit) – depending on the type of therapy required. During operation, ambient air is drawn into the heater through a HEPA filter certified to remove particulates down to .2 microns. This filtering prevents bacterial contaminants from being drawn into the system and discharged onto the patient. After filtration, the heated air is transferred to the disposable **SOFT-FLEX** Warming Cover through a flexible plastic hose. The patient side of the disposable cover consists of a non-woven material with hundreds of small holes to allow the filtered warm air to evenly flow over and around the patient's body.

Several specially designed models of disposable **LIFE-AIR 1000, SOFT-FLEX** Patient Warming Covers are available for use in both the operating and recovery rooms. Refer to page 20 of this manual for a full line of **SOFT-FLEX** Patient Warming Cover models. Consult your **LIFE-AIR** representative for new/additional models that may be available as a result of Progressive Dynamics' continuing development program.

Why Use the LIFE-AIR 1000 Hypothermic Therapy System?

Postoperative hypothermia is one of the main contributors of patient discomfort. Hypothermia is experienced when the core temperature of the body is less than 36 °C (96.7 °F) and occurs in 60 to 80 percent of all postoperative patients. The feeling of freezing and the severe shivering that result contribute significantly to the patient having unpleasant memories of surgery. In addition to patient discomfort, hypothermia causes a decrease in cardiovascular stability and increase in oxygen consumption up to 400%.

The **LIFE-AIR 1000** System is far more effective and safer in preventing and treating hypothermia than the present methods of piling on warmed cotton blankets, using liquid blankets, or even infrared heat.

The **LIFE-AIR 1000** System can maintain body temperature during surgery to prevent hypothermia. After surgery, this same system can be used in the recovery room to bathe the patient with warmed air to continue the rapid recovery process.

Attention!



1. **Danger:** Do not warm patients with the **LIFE-AIR 1000** Blower hose alone. Thermal injury may result. Always attach the hose to a **SOFT-FLEX** Warming Cover before providing warming therapy.
2. **Warning:** If the system goes into the over temperature mode, discontinue use and replace the complete **LIFE-AIR 1000** Heating Unit. Refer to the troubleshooting guide for possible faults and corrective action.

Note: If the Over Temperature Alarm is activated, the heater will automatically shut down and will remain OFF until the Main Power Switch is returned to the OFF position and then back to the ON position by the operator.
3. **Warning:** Do not use on Ischemic Limbs, E.G. During Aortic Cross-Clamping.
4. **Caution:** Federal law restricts this device to sale by or on the order of a physician.
5. **Caution:** To reduce the risk of electric shock, **Do Not Remove Cover**. Refer servicing to qualified service personnel.
6. **Caution:** Begin Life-Air 1000 therapy at 32.2°C (90°F) if the patient is hemodynamically unstable.
7. **Caution:** The maximum temperature setting for patients who are immobile, unconscious, have poor peripheral perfusion, or are nonsensate is 37.8°C (100°F).
8. Read and understand all items in this manual before attempting to use the **LIFE-AIR 1000** System.
9. The actual temperature of the air around the patient is determined by the room temperature and the use of an insulating blanket.
10. When utilizing the **LIFE-AIR 1000** System, you should monitor the patient's temperature and vital signs every 15 minutes.
11. Before starting therapy with the **LIFE-AIR 1000** System, check to see that the patient is dry. If therapy is started on a wet patient, a cooling effect will occur.
12. If the patient's wounds are infected, the possibility of airborne contamination should be considered.
13. This unit is equipped with a "hospital grade" plug. Grounding reliability can only be achieved when this equipment is connected to a "hospital only" or "hospital grade" receptacle. Check ground continuity regularly. *Applicable to U.S. only.*
14. The **LIFE-AIR 1000** is for use by qualified medical personnel only.
15. **SOFT-FLEX** Warming Covers are single-use disposables and are not intended for reuse.

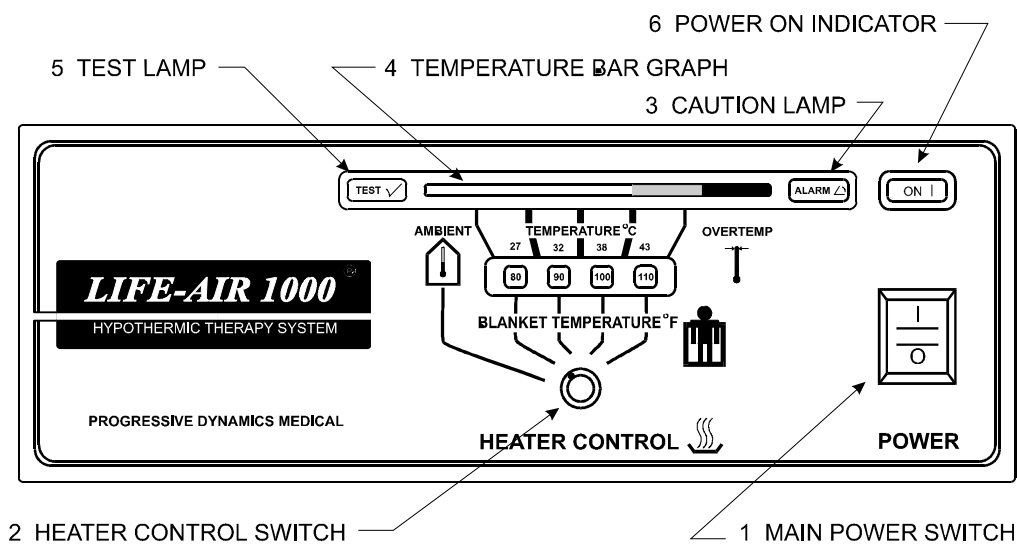


Fig. 1-1

Control Panel Layout

1. **Main Power Switch** - Controls all power to the *LIFE-AIR 1000* System.
2. **Heater Control Switch** - This switch has five (5) selectable ranges: ambient, 27°, 32°, 38°, and 43° Celsius (ambient, 80°, 90°, 100°, and 110° Fahrenheit).
 - A. In the ambient position, cooling of the patient will occur.
 - B. In the 27°C (80°F) position, a mild cooling of the patient will occur.
 - C. In the 32°C (90°F) heat position, the heated air bathing the patient will be 32°C $\pm$ 3°.
 - D. In the 38°C (100°F) heat position, the heated air bathing the patient will be 38°C $\pm$ 3°.
 - E. In the 43°C (110°F) heat position, the heated air bathing the patient will be 43°C $\pm$ 3°.
3. **Caution Lamp** - If the **CAUTION** Lamp flashes Red, and the Audible Alarm tone sounds, the system automatically shuts the heater off. If the system shuts down due to this over temperature condition, it must be manually reset by the operator. This is done by turning the Main Power switch OFF, then back ON again. This safety feature prevents the system from cycling between high and low temperatures, which could result in injury to the patient.
4. **Temperature Bar Graph** - Visually displays the temperature “range” of the air being fed to the Patient Warming Cover. This indicator provides the operator with a quick visual check of the temperature range setting. Should the system temperature exceed the safe limits, the bar graph indicator will move into the OVERTEMP OR “RED” area, and the Audible Alarm will sound.
5. **Test Lamp** - The *LIFE-AIR 1000* has a built-in automatic test sequence which can be activated by a push-button switch located on the underside of the heater unit. Once this button is pushed, the Test Lamp will flash ON and OFF until the test cycle is complete. This is an automated test sequence. The test cycle will run the temperature output of the unit from ambient to its over temperature cut-out limit 49°C (120°F) to ensure the heater is working properly and that the safety alarms and cut-out features are operational. A complete test cycle will take approximately 3 minutes. It is recommended that the test be performed before utilizing the system on a patient.
6. **Power On Indicator** - Green lamp illuminates when the Main Power Switch is in the ON position, and there is power to the unit.

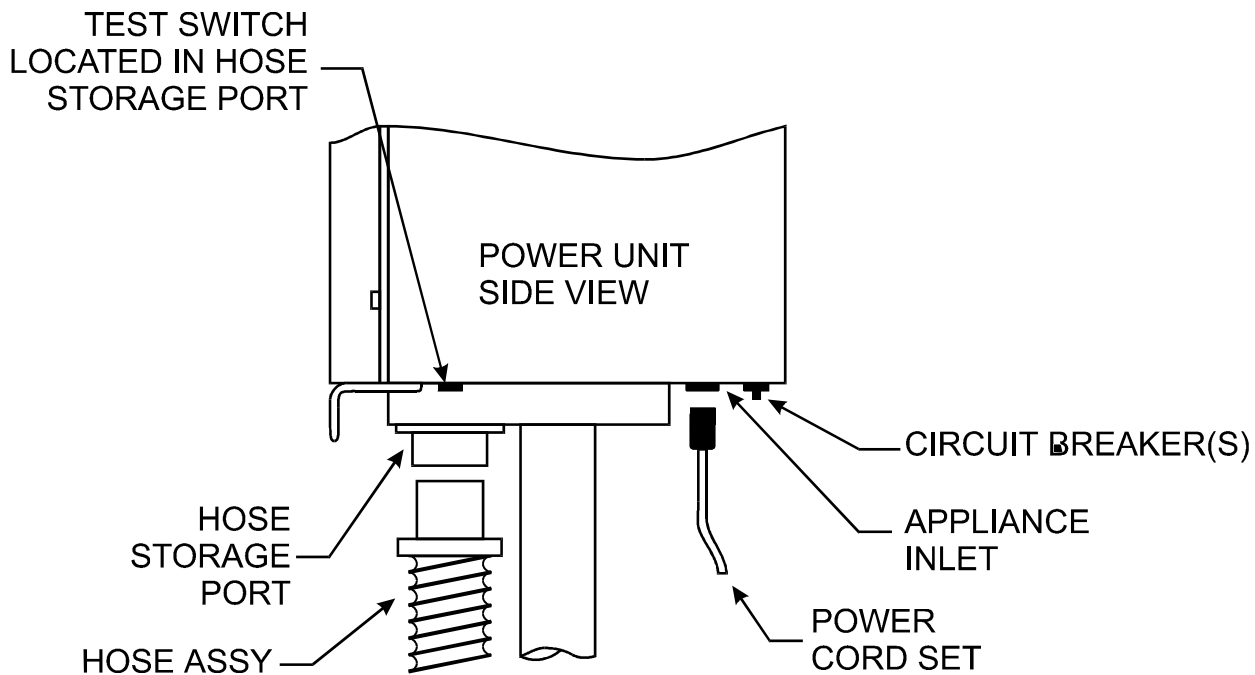


Fig. 1-2

Set-Up and Operation

1. Set the Main Power Switch to the "OFF" position (Fig. 1 - 1).
2. Plug the **LIFE-AIR 1000** into a properly grounded electrical outlet. Refer to the Power Cord installation and replacement on page 21.
3. Connect one end of the hose to the warm air port located on the top of the unit.
4. Turn the Main Power Switch to the ON position. The Green Power ON Indicator lamp will illuminate, and the air blower will begin to operate quietly.

If the unit is powered up with the air flow into or out of the unit abnormally restricted for more than 1 minute, the unit may automatically shut down, depending on the heater control setting and ambient air temperature. The unit can be reset by depressing the circuit breaker. (See Fig. 1 - 2.)

Note: This safety feature should be checked at regular service intervals. See section titled **Safety Features** for further details.

If the temperature bar does not show any change in temperature within 15 seconds of initial power up, the unit should be run through an automatic test sequence prior to continued use. No difference may be noted if the heater control setting is ambient or near the ambient air temperature.

5. You must now determine if you wish to perform the Self-Test function on the **LIFE-AIR 1000**. If the answer is YES, follow the instructions for the Self-Test Sequence located on pages 7-8; if the answer is NO, continue with step #6.
6. Remove one of the disposable **LIFE-AIR 1000, SOFT-FLEX** Warming Covers from its package. Place the cover over the patient, fabric side down, as per the instructions included in the package.

7. Cover the patient and the **LIFE-AIR 1000, SOFT-FLEX** Warming Cover with a standard cotton hospital blanket.
8. Insert the flexible air hose into the interface on the **SOFT-FLEX** Warming Cover (see Fig. 1 - 3). Refer to Product Application Sheet provided with cover for additional instructions. To prevent the hose and blower unit from pulling the Warming Cover off the patient, a hose support and hose clips have been supplied with your unit. (Refer to Fig. 1-3a on next page for suggested use.)
9. Turn the Heater Control Switch (see Fig. 1-1) to the proper temperature setting for the patient. If you wish to mildly cool the patient, place the Heater Control Switch in the 27° or 32° Celsius (80° or 90° Fahrenheit) position.

Caution!



If the patient is hemodynamically unstable, start the warming therapy in the lower temperature range of 32°C (90°F).

Notes: During initial warm-up, the Temperature Bar Graph may display an overshoot of one or two bars before stabilizing in the selected control zone.

If the blower unit has been running and is then turned off, a heat soak condition may lead to a false overtemp indication when turned back on. In this case, allow unit to remain on approximately 10 seconds to cool unit, turn off unit and then back on. The unit should now operate normally.

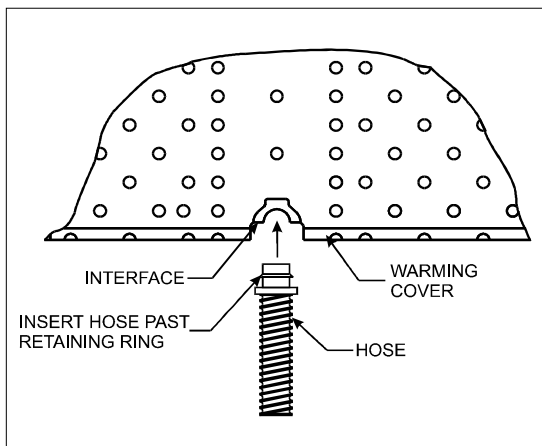


Fig. 1-3

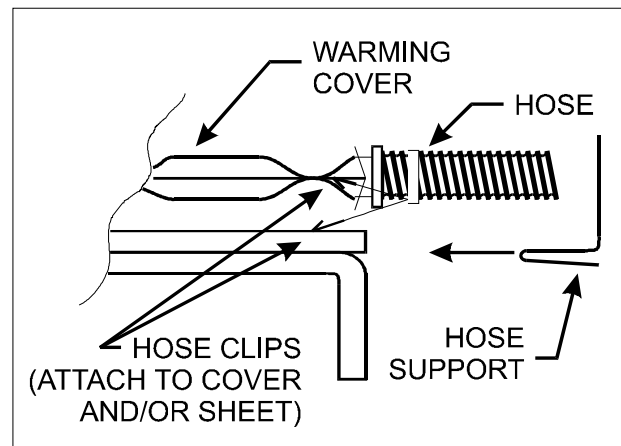


Fig. 1-3a

Safety Features

To prevent the system from accidentally overheating the patient, the **LIFE-AIR 1000** has a redundant Over Temperature Alarm system. In the event the temperature sensor fails (i.e., shorts or opens), the system will sound an Audible Alarm and turn the heater off. If the heater controller fails and the temperature at the patient exceeds 49°C (120°F), a relay will disconnect power to the heater, the Audible Alarm will sound, and the Caution Light will come on. This shut down condition will remain until the unit is turned off.

Over Temperature Shutdown Test

In addition to the above safety features, there is a time out circuit to shut the complete unit down in case of a runaway condition or when the hose is not connected to a normal restriction.

This feature should be checked at regular service intervals by doing the following:

There are 2 types of Time-out circuitry used in the **LIFE-AIR 1000**, each requires different testing procedures. The procedure to be used can be determined by looking into the air outlet on the top of the unit. If there is 1 thermal sensor in the Plenum use procedure #1, if there are 2 sensors use procedure #2.

Time-out test Procedure #1:

1. Set the Main Power Switch to the "OFF" Position.
2. Plug the **LIFE-AIR 1000** into a properly grounded electrical outlet.
3. Remove the hose from the top of the unit.
4. Set the Heater Control Switch to the "110" setting.
5. Turn the unit on.
6. After about 4 minutes the circuit breaker should trip.
7. Turn the unit off and reset it by depressing the circuit breaker located on the bottom front of the unit.

Time-out test Procedure #2

1. Set the Main Power Switch to the "OFF" position.
2. Plug the **LIFE-AIR 1000** into a properly grounded electrical outlet.
3. Connect the hose to the Warm Air Port and to the Hose Storage Port.
4. Set the Heater Control Switch to the 43°C (110°F) setting.
5. Turn the unit on and allow to stabilize at the 43°C (110°F) setting.
6. Disconnect the hose from the Hose Storage Port and press the Test Switch.
7. Cover the free end of the hose by placing it against a flat surface and note the time. (Disregard overtemp warnings during this test.)
8. The unit should completely shut down within 2 minutes.
9. Turn the unit off and reset it by depressing the circuit breaker located on the bottom front of the unit.

Self-Test Sequence

The automatic Self-Test sequence will take approximately 3 minutes to complete. This test will ensure that the system is heating properly and that the over temperature audible safety alarm, indicator lights, and system shutdown are functioning.

Caution: The self-test sequence should never be run while the system is on a patient. Operation in this manner could result in thermal injury to the patient.

1. Press the push-button Test Switch located in the center of the Hose Storage Port positioned toward the rear of the bottom panel (see Fig. 1-2). This will initiate the automated Self-Test sequence.
2. The Test Lamp on the front panel will flash yellow.
3. Connect the free end of the system air hose to the Hose Storage Port located on the bottom of the heater unit (see Fig. 1-2).
4. The Temperature Graph will begin indicating an increase in air temperature (i.e., more bars will begin to light).
5. Once the temperature increases to the point that an Overtemp condition exists (one or more of the last four LEDs will show Red), the system will make an audible beeping sound and the Red Caution Lamp will flash.
6. The system will now automatically disconnect power to the heater, and the temperature reading on the bar graph will begin to decrease. The audible alarm will then stop beeping, and the test lamp will extinguish.
7. The system temperature will continue to decrease until it is in the range indicated by the setting of the Temperature Control knob. The air hose may now be disconnected from the Hose Storage Port for use with a Patient Warming cover, or it may be left there for convenient storage.

Note: If the test light should go out, and the caution lamp and buzzer are activated, the unit has failed the self-test. Refer to the troubleshooting guide for possible faults and corrective action.

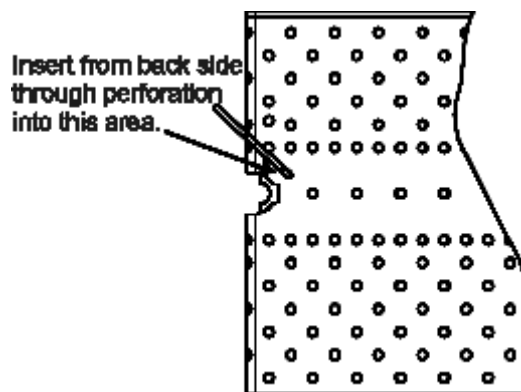
Output Temperature Verification

This section will provide instructions for verifying the output temperature of the *LIFE-AIR 1000* Models PD1000-1, PD1000-1S and PD1010.

The following items will be required for the output temperature tests. One PD1101 Warming Cover, a glass thermometer capable of measuring between 38°C (100°F) and 55°C (130°F), and a cotton blanket.

To test the output temperature:

1. Place the PD1101 Warming Cover on a bed, blue punched side down.
2. Using a standard hose, attach the unit to be tested to the PD1101 Warming Cover.
3. Set the temperature control to the lowest setting and turn the unit under test ON to inflate the warming cover.
4. Insert the glass thermometer through one of the perforations on the “patient side” of the warming cover in the first inflated pillow. (See illustration below.)



5. Cover the warming cover with the cotton blanket. Set the temperature controller to the 43 °C (110°F) setting. Allow the unit to run for at least 30 minutes.
6. At the end of the 30 minutes, lift the corner of the warming cover to expose the thermometer and read the temperature indicated on the thermometer.
7. The output temperature should be in the range of 47°C +/- 4°C (116°F +/- 4°F). If the temperature is above or below this range, check the air filter to see that it is properly installed and not excessively dirty. If this does not correct the temperature, return the unit for repair.

Maintenance and Cleaning

The **LIFE-AIR 1000** does not require special maintenance other than general cleaning and HEPA filter replacement. When cleaning the unit, use a soft, damp cloth and a mild detergent.

Cleaning Instructions

Caution! 

Disconnect the power cord from the wall outlet before cleaning.

Clean the external surface by wiping gently with a soft, dry cloth. You may also use a cloth lightly dampened with a 70% Isopropyl Alcohol solution.

Do not use a wet saturated cloth to clean the unit, as moisture may enter the unit and damage the electronic circuitry.

Filter Replacement

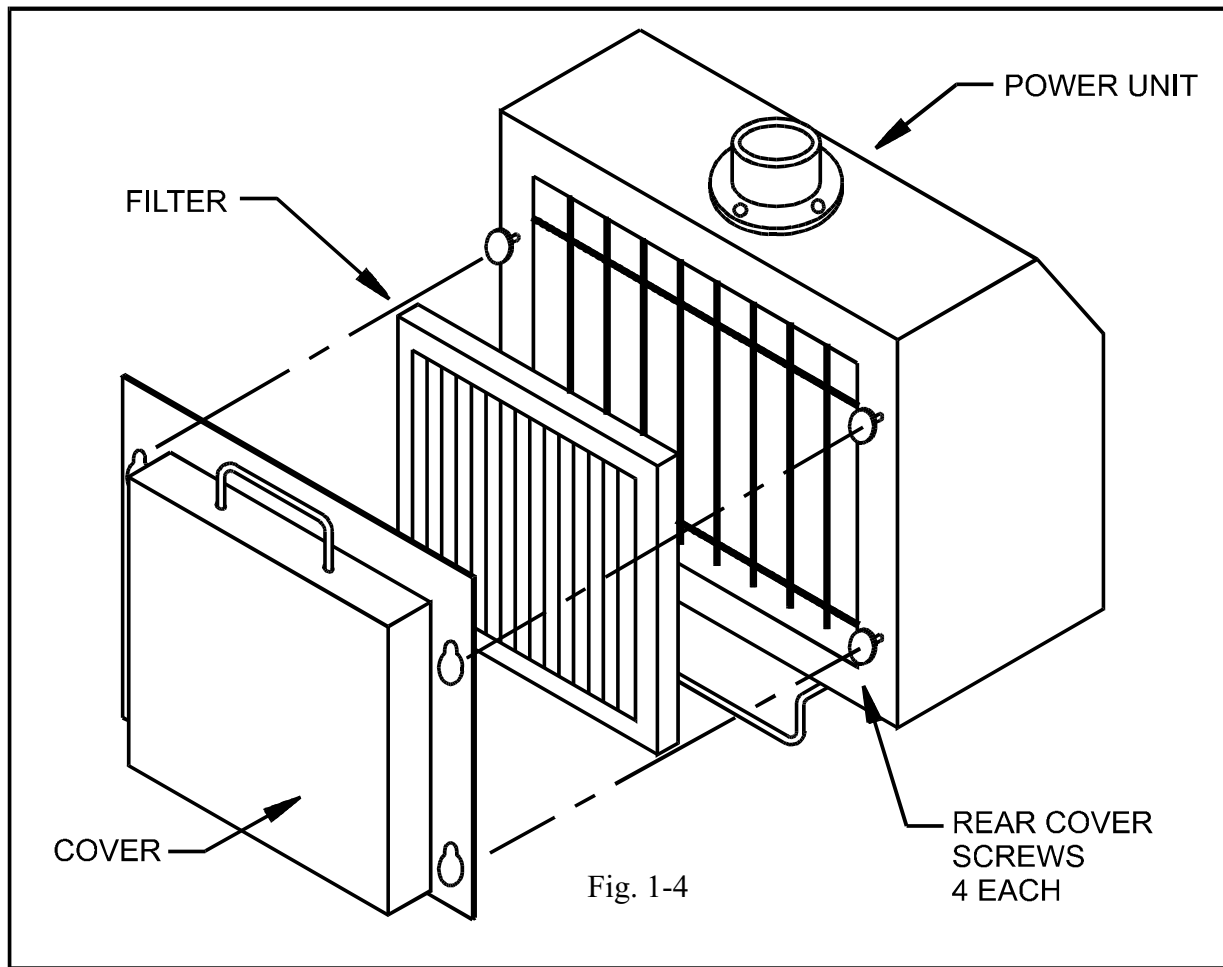
Caution! 

Disconnect the power cord from the wall outlet before replacing the filter.

The HEPA air filter located in the rear of the unit should be changed at a minimum of every 6 months for the operating room and twelve months when used in the recovery room. An indication the filter needs to be replaced is the fact that the **SOFT-FLEX** Warming Cover will not fully inflate. Refer to the troubleshooting guide for additional replacement criteria.

To change the filter:

- A. Turn the unit off.
- B. Disconnect the power cord from the wall outlet.
- C. Loosen (if equipped with thumbscrews) or remove the four (4) screws on the rear of the unit.
- D. Lift off the filter cover.
- E. Lift out of the filter element and replace with a new PDI filter (part number PD1050). See Fig. 1-4.



Caution!

Do not disassemble this unit. There are no adjustable or user serviceable components. For service, return the heater unit to Progressive Dynamics Medical, Inc. or to an authorized service center for repair.

**Service Department
Progressive Dynamics Medical, Inc.
507 Industrial Road
Marshall, MI 49068
Phone: 616-781-4241
Fax: 616-781-7802**

PROGRESSIVE DYNAMICS MEDICAL, INC.
WARRANTY POLICY

1. **LIMITED WARRANTY:** Progressive Dynamics Medical, Inc. warrants its products to be free from defects in material or workmanship under normal use and service, and limits the remedies to repair or replacement.
2. **DURATION:** This warranty is valid only within North America and shall extend from the original date of retail purchase for the period specified below.

Life-Air 1000 Patient Warming System Blowers: 3 Years

Soft-Flex Patient Warming Blankets: 3 Years

3. **WARRANTY EXCLUSIONS:** This warranty specifically does not apply to:
 1. Any product which has been repaired or altered in any way by an unauthorized person or service station;
 2. Damage caused by excessive input voltage, misuse, negligence or accident, or an external force;
 3. Any product installed in a vehicle used for commercial purposes;
 4. Any product which has been connected, installed or adjusted, or used other than in accordance with the instructions furnished, or has had the serial number altered, defaced, or removed;
 5. Cost of all services performed in removing and reinstalling the product; and
 6. ANY LOST PROFITS, LOST SAVINGS, LOSS OF USE OF ENJOYMENT OR OTHER INCIDENTAL DAMAGES ARISING OUT OF THE USE OF, OR INABILITY TO USE, THE PRODUCT. THIS INCLUDES DAMAGES TO PROPERTY AND, TO THE EXTENT PERMITTED BY LAW, DAMAGES FOR PERSONAL INJURY. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
4. **PROOF OF PURCHASE:** A warranty claim must be accompanied by proof of the date of purchase.
5. **CLAIM PROCEDURE:** Upon discovery of any defect, Progressive Dynamics Medical, Inc. shall be supplied the following information by mail, telephone, or fax at the address listed below:
 1. Name and address of the claimant;
 2. Name and model of the product;
 3. Date of purchase; and
 4. Complete description of the claimed defect.

Upon determination that a warranty claim exists (a defect in material or workmanship occurring under normal use and service), the product shall be shipped postage prepaid to Progressive Dynamics Medical, Inc. together with proof of purchase. The product will be repaired or replaced and returned postage prepaid.

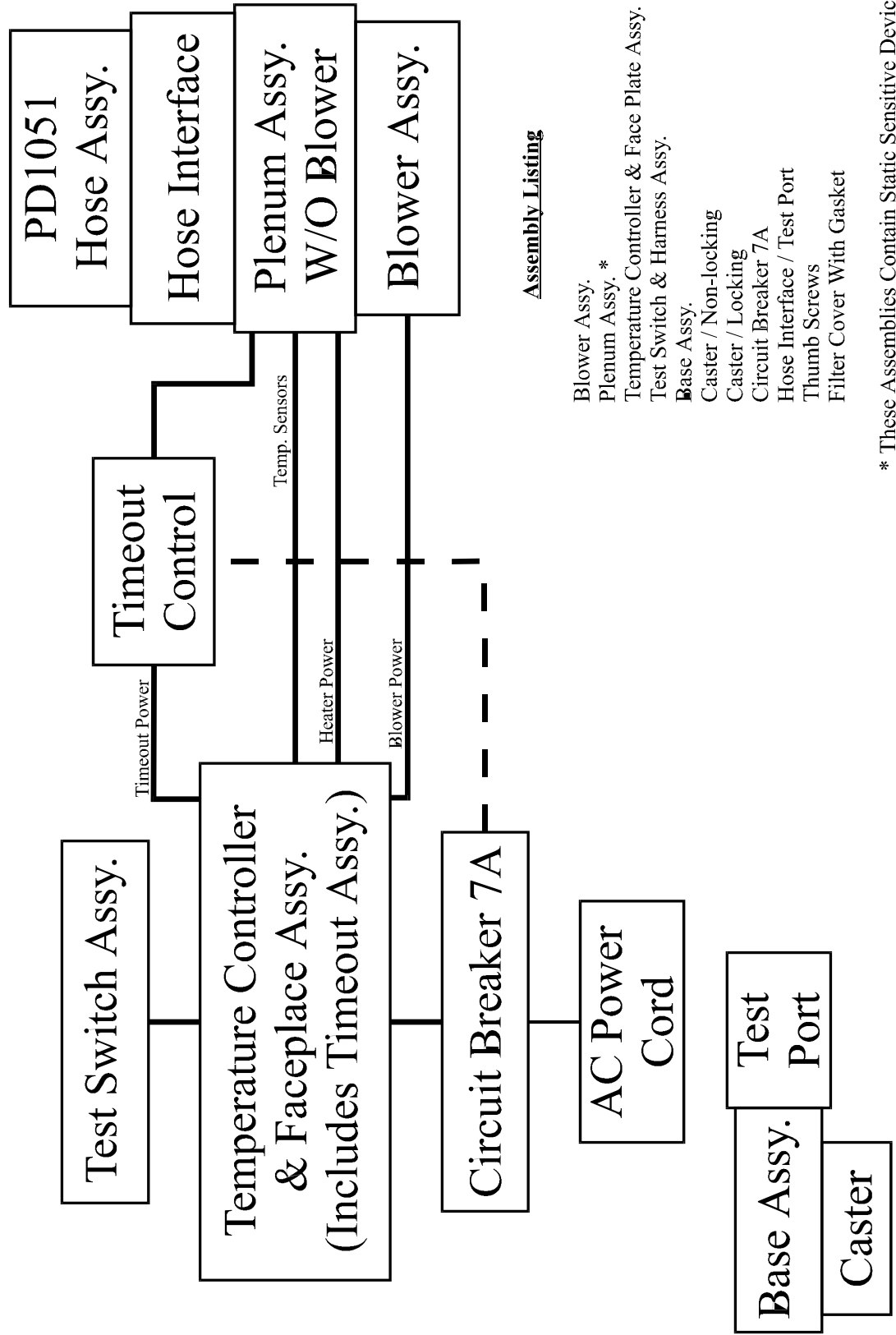
Progressive Dynamics Medical, Inc.
507 Industrial Road
Marshall, Michigan 49068
Phone: 616-781-4241 Fax: 616-781-7802

LIFE-AIR 1000 Troubleshooting Chart

<i>PROBLEM</i>	<i>POSSIBLE CAUSE</i>	<i>ACTION</i>
Unit warms to over temp from room temperature when turned on; does not appear to control at desired setting.	Low flow warming cover. Restricted filter.	Turn unit off & allow to cool for 5 min. Connect host to Test Port. Turn unit on. Allow unit to run for 3 min. Replace filter.
Buzzer sounds and caution lamp flashes 2 seconds after unit is first turned on.	Thermal sensor has been thermally soaked. Shorted thermal sensor.	Allow unit to cool for 5 min. Return unit for service.
Unit over temped during normal operation.	Restricted filter element. Low flow warming cover.	Replace filter. Replace warming cover.
Unit failed to over temp during a Self-Test.	Hose not connected to test port. Faulty control circuit.	Insert hose into test port. Return unit for service.
Unit fails Self-Test. Caution lamp flashes and buzzer sounds, no test lamp.	Restricted filter. Control circuit failure.	Remove filter and retest. Replace filter. Return unit for service.
No front panel indicators or fan output.	Power cord not connected. Circuit breaker tripped.	Plug in power cord. Reset breaker.
Circuit breaker trips after 4 min. of run.	Hose not connected. High flow warming cover. Faulty control circuit.	Insert hose into warming cover or test port. Replace warming cover. Return unit for service.
Temperature display does not change with temperature control setting.	Faulty control circuit.	Return unit for service.
Circuit breaker trips immediately on power up.	Faulty control circuit.	Return unit for service.
Buzzer sounds when unit is first turned on.	Faulty control circuit.	Return unit for service.

LIFE-AIR 1000® Block Diagram

MODEL PD1000-S, PD1000-1S, PD1000, PD1000-1



Assembly Listing

Blower Assy. *
 Plenum Assy. *
 Temperature Controller & Face Plate Assy. *
 Test Switch & Harness Assy.
 Base Assy.
 Caster / Non-locking
 Caster / Locking
 Circuit Breaker 7A
 Hose Interface / Test Port
 Thumb Screws
 Filter Cover With Gasket

* These Assemblies Contain Static Sensitive Devices

Specifications

PD1000-S, PD1000-1S, PD1000 & PD1000-1

(North American Models)

Overall Dimensions	PD1000-S / PD1000-1S	PD1000 / PD1000-1
Height	23.5 inches	30.5 inches
Width:	20.5 inches	20.5 inches
Depth:	19.5 inches	19.5 inches
Weight:	35 pounds	35 pounds

Construction 16 gauge steel with textured baked enamel finish.

Temperature Control System

The Temperature Control System utilizes a solid state sensor to control the output temperature to the blanket with a tolerance of +/-5°F at each setting. The system incorporates dual redundant over temperature shut down circuitry to disconnect power to the heater element. A flashing warning indicator light and audible alarm, in the event of a controller or sensor failure, are additional safety features. The heating element is a 700 W sealed unit.

Blower	PD1000-S / PD1000	PD1000-1S / PD1000-1
Motor:	1/70th hp	1/25th hp
Speed:	3,200 rpm	3,200 rpm
Free Air Output:	65 cfm	135 cfm

The five (5) temperature settings - ambient, 80, 90, 100, 110°F indicate the average temperature of the air surrounding the patient.

- A. Room Temperature
- B. 80°F +/-5°
- C. 90°F +/-5°
- D. 100°F +/-5°
- E. 110°F +/-5°

Note: The temperature surrounding the patient is dependent on the ambient temperature of the room and the use of a standard cotton hospital blanket covering the disposable warming cover to reduce heat loss.

Diagnostics: Automated Self-Diagnostics activated by recessed switch.

Filtration: 95%, .2 Micron HEPA

Electrical Requirements: 120 VAC, 60 Hz, @ 7 AMPS

Circuit Protection: 7 AMP Circuit Breaker

Safety Agency Approvals: Underwriters Laboratories Listed Medical Equipment UL544
Canadian Standards Association Certified Electromedical
Equipment C22.2 No. 125-M1984

Patent No's. 5,125,238 5,246,656 5,265,599 5,300,098 5,304,217 5,392,847 5,443,488 5,486,205 DES 362,507 359,810
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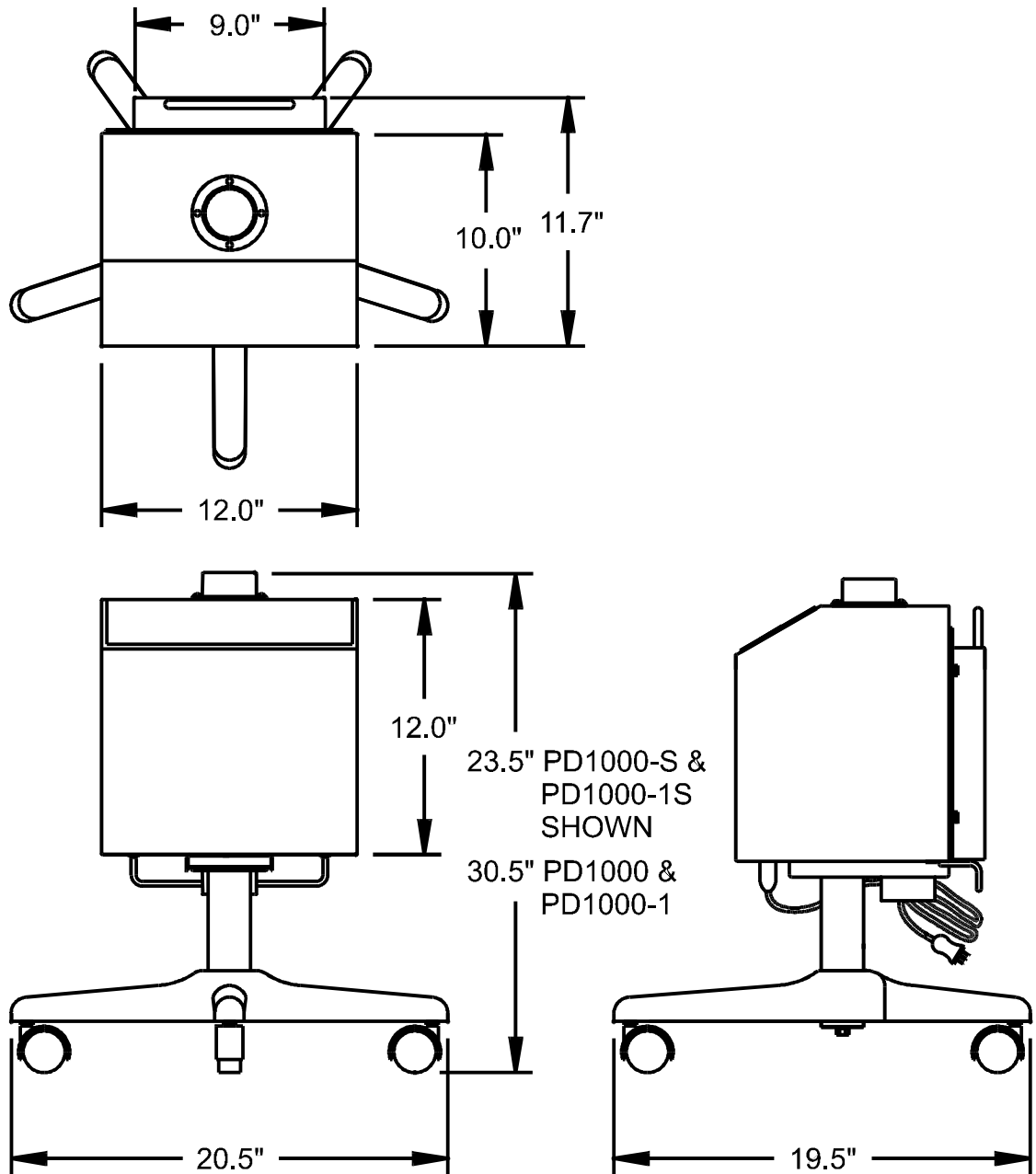
Canadian Patent No's. 2063476 2094957 2099163 2147287

Australian Patent No. 656,507

European Patent No. 590,758 697,201

Other U.S. and Foreign Patents pending on heater unit and warming covers.

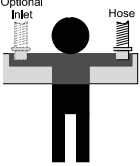
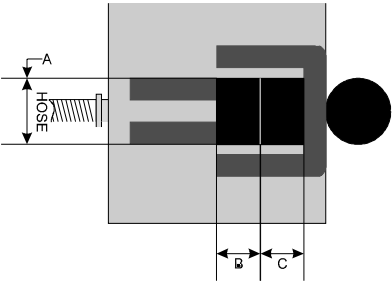
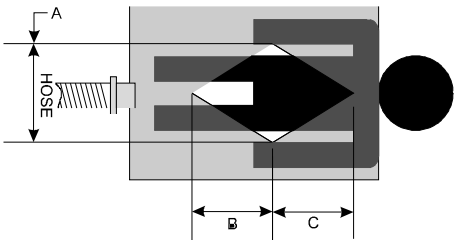
DIMENSIONAL DRAWING
PD1000-S, PD1000-1S, PD1000, & PD1000-1



ACCESSORIES

Part Number	Description
PD1050	Filter, HEPA .2 Micron
PD1051	Hose, 808883 / 110 Coils / 55" (Supplied with PD1000, PD1000-1)
PD1052	Hose Support (Supplied with Unit)
PD1053	Hose, 809524 / 130 Coils / 65"
PD1054	Blanket Holder
PD1055	Hose, 809559 / 160 Coils / 80" (Supplied with PD1000-S, PD1000-1S, and PD1010)
PD1056	Rear cover w/Extending Handle
PD1057	Cord Set, 5 Meters, BRITISH
PD1058	Cord Set, 5 Meters, CONTINENTAL EUROPEAN
PD1059	Cord Set, 5 Meters, AUSTRALIAN
PD1060	Cord Set, 5 Meters, SWISS
PD1061	Cord Set, 5 Meters, ITALIAN
PD1062	Cord Set, 5 Meters, INDIAN
PD1063	Cord Set, 5 Meters, ISRAELI
PD1064	Cord Set, 5 Meters, DANISH
PD1065	Universal Hose Clip
PD1066	Cord Set, 15 Feet, NORTH AMERICAN

AVAILABLE *SOFT-FLEX*® WARMING COVERS

	<u>MODEL</u>	<u>NOMINAL SIZE (INCHES)</u>	
		<u>Uninflated</u>	<u>Inflated</u>
	PD1101 ADULT RECOVERY ROOM	42" x 68"	35" x 60"
	PD1103/PD1103L UPPER BODY SURGICAL	21" x 83"	18" x 77"
	<i>Note: The PD1103 has two air entry ports to allow placement of the heater/blower on either side of the patient. The PD1103L has a single air entry port located on the left side of the patient.</i>		
	PD1104 PEDIATRIC RECOVERY ROOM	42" x 44"	35" x 39"
	PD1105 LOWER BODY SURGICAL	42" x 44"	35" x 39"
	PD1106 CORRIE COVER, MINI SURGICAL	42" x 44"	35" x 39"
	<i>Note: The PD1106 and PD1107 warming covers are products designed to be used during surgery. They have upper and lower panels that can be opened by the surgeon to expose the portion of the body to be operated on while keeping the rest of the body warm.</i>		
		A = 9"	8"
		B = 9"	8"
		C = 14"	13"
	PD1107 FULL BODY SURGICAL	42" x 73"	35" x 69"
	<i>Dimension "A" on PD1106 and PD1107 is user adjustable from fully closed to the maximum values listed. See Product Application Supplements for additional details.</i>		
		A = 16"	14"
		B = 19"	16"
		C = 23"	21"

Material used to manufacture warming covers: Top material is non-reflecting polyethylene film. Bottom material is non-woven polyester cloth. Reaction to spills: Top can be wiped off with no damage; bottom material absorbs spills with no damage.

*Note: Progressive Dynamics has previously reviewed and, from time-to-time, performs additional reviews on the overall LIFE-AIR 1000® System. These reviews have all shown that the LIFE-AIR 1000 blowers and Soft-Flex® warming covers and hoses **do not contain natural latex.***

Power Cord Installation and Replacement

The following instructions apply to initial power cord installation required on PD1010 model units. Power cords are factory installed on PD1000-S, PD1000-1S, PD1000, and PD1000-1 model units. The instructions are also applicable to power cord replacement on all units. Refer to Fig. 1-5.

1. Remove power cord from package and verify that the plug end is correct for your application. If it does not mate with your power receptacles, contact your supplier. DO NOT attempt to modify the plug.
2. Install the power cord connector into appliance inlet on bottom of the blower unit.
3. Locate and remove power cord cable clamp from bottom of blower unit. A #2 Phillips crosspoint screwdriver is required to remove the screw holding the clamp.
4. Assemble cable clamp onto power cord, positioned so that a small loop exists between appliance inlet and cable clamp.
5. Reinstall cable clamp to bottom of blower unit.

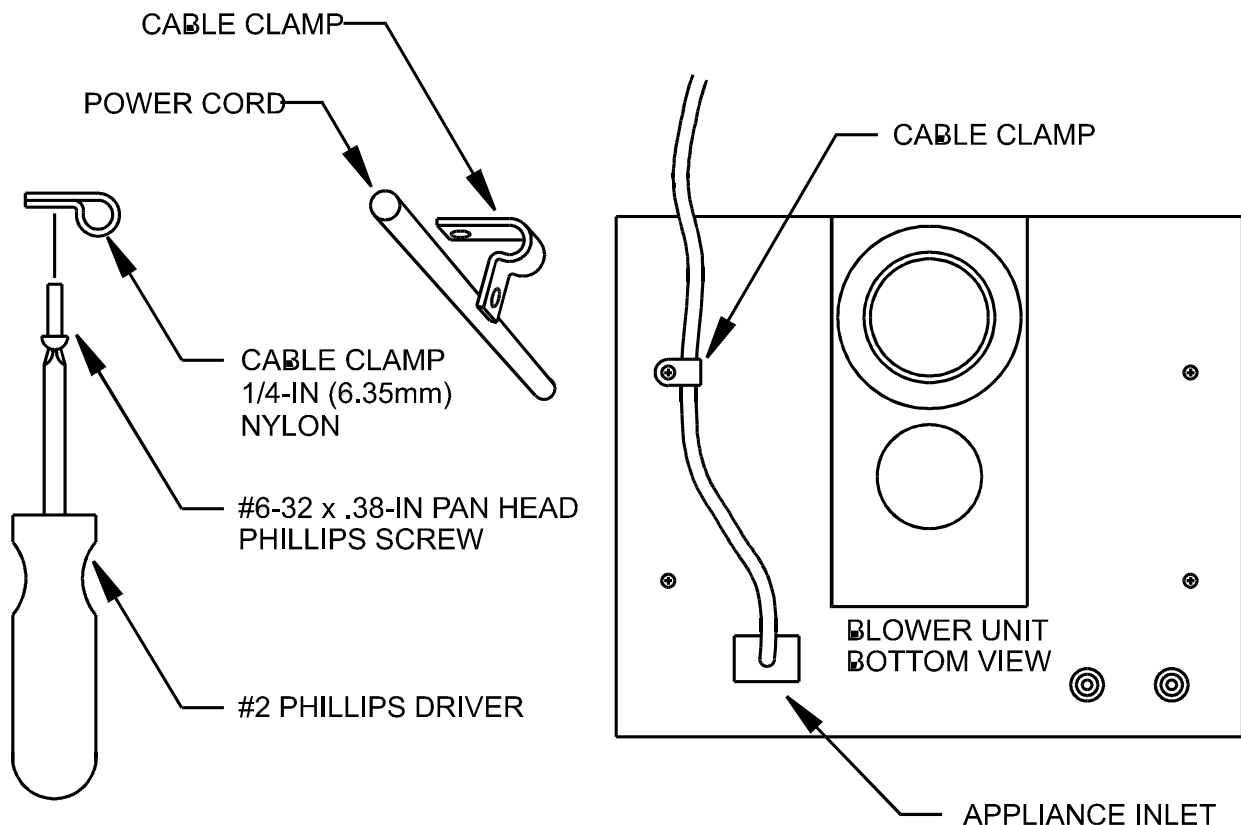


Fig. 1-5